

Atty. Docket No. 21511/90135

09/040,485

E2 a molecule consisting of the nucleotide sequence set forth in FIG. 1 and designated [(SEQ ID NO:1)].

2/8 (Twice Amended) A vaccine comprising an isolated immunologically active molecule [having] comprising an amino acid sequence selected from the group consisting of sequences encoded by [the] a cDNA [of] molecule with a nucleotide sequence shown in FIG. 1 and designated [(SEQ ID NO:1)], the sequence shown in [of] FIG. 2 and designated [(SEQ ID NO:2)], the peptide [peptides] Ala Pro Pro Glu Asp Asn Pro Val Glu Asp [APPEDNPVED] as shown in [(SEQ ID NO:6)], the peptide Glu Glu Gln Gln Glu Val Pro Pro Asp Thr [EEQQEVPPDT] as shown in [(SEQ ID NO:7)], the peptide Asp Gly Pro Thr Gly Glu Pro Gln Gln Glu [DGPTGEPQQE] as shown in [(SEQ ID NO:8)], the peptide Gln Glu Asn Pro Asp Ser Ser Glu Pro Val [QENPDSSEPV] as shown in [(SEQ ID NO:9)], [and] any immunologically active fragment [thereof] of at least 6 amino acids in length consisting of a partial sequence of SEQ ID NO: 2, and combinations of members of the group. [thereof].

3/10 (Twice Amended) An isolated molecule consisting [having an] of an amino acid sequence selected from the group consisting of [APPEDNPVED] Ala Pro Pro Glu Asp Asn Pro Val Glu Asp designated [(SEQ ID NO:6)], [EEQQEVPPDT] Glu Glu Gln Gln Glu Val Pro Pro Asp Thr designated [(SEQ ID NO:7)], [DGPTGEPQQE] Asp Gly Pro Thr Gly Glu Pro Gln Gln Glu designated [(SEQ ID NO:8)], and [QENPDSSEPV] Gln Glu Asn Pro Asp Ser Ser Glu Pro Val designated [(SEQ ID NO:9)].

4/11 (Twice Amended) An isolated molecule [with an] consisting of amino acid [sequence comprising the sequence PTGEPQ] residues 3-8 of SEQ. ID NO: 8.

E4 5/19 (Amended) The isolated molecule of claim 6 further defined as purified.

6/20 (Amended) An isolated molecule [having the amino acid sequence shown in FIG. 2] consisting of an amino acid sequence designated [(SEQ ID NO:2)].

E5 7/21 A vaccine comprising an immunologically active molecule of claim 10.

## REMARKS

## I. Status of the Claims

Claims 6, 7, 9-11, 19-20 are amended.

Claim 21 is added